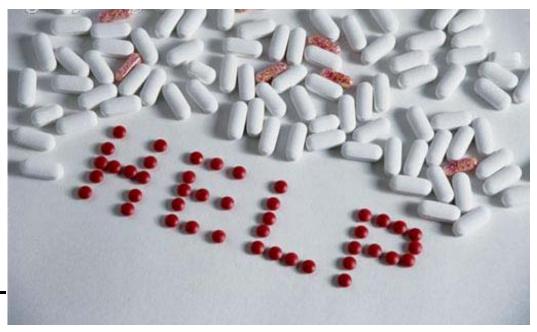
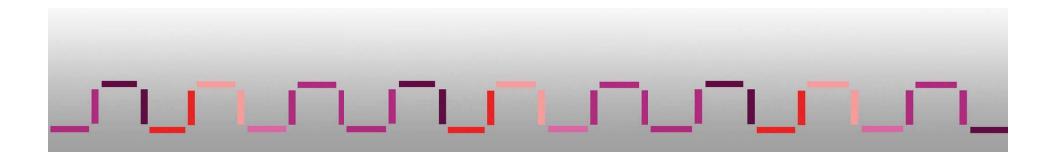
# **MedSignals** \_\_

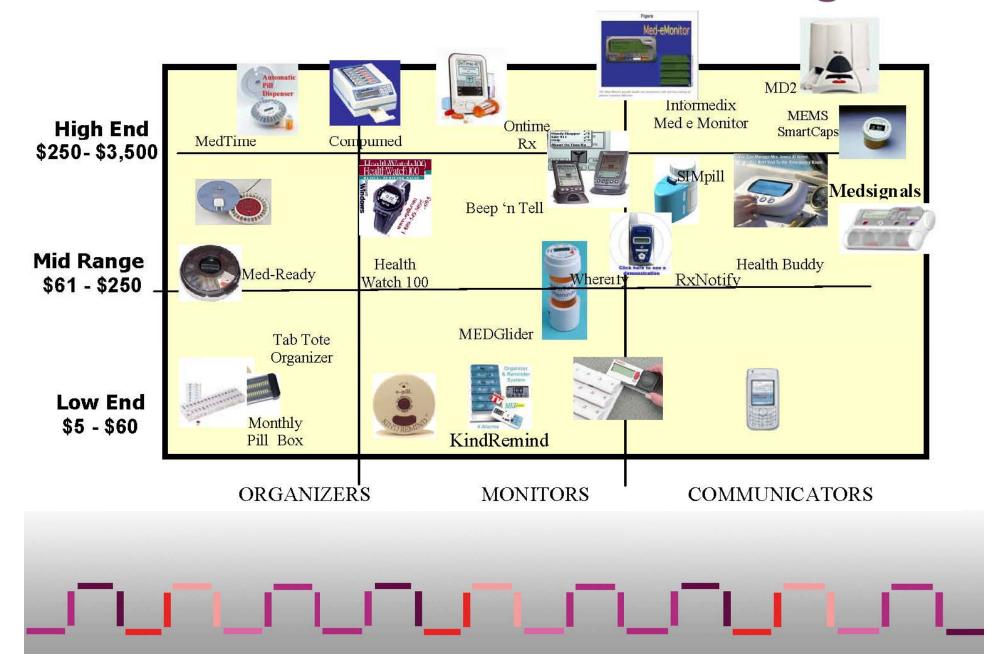
# Implementing interventions and collecting data electronically is becoming the norm.

- 1. What capabilities do these technologies provide? Which apply to your work?
- 2. Where are the trends moving?
- 3. How to design state-of-theart/science interventions





### **"-"MedSignals**"-



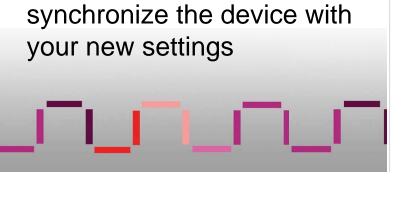
# Most MedSignals® features resulted from researcher needs

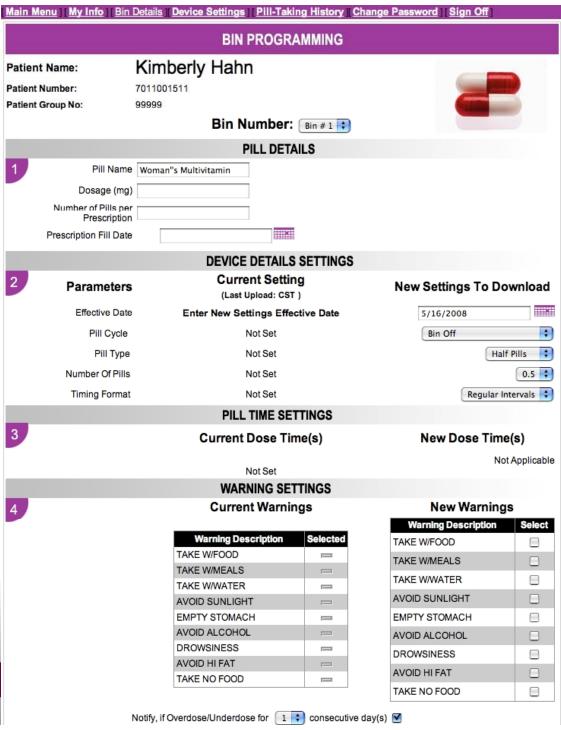




#### **Programmable**

- Online
- On the device
- Via your laptop
- Point and Click on the <u>Webpage</u>. The phone downloads new settings to the device from your desk.
- On the <u>device</u> using 3 buttons.
- From your own computer with a phone simulator (known as an I-Set), synchronize the device with your new settings





### **"-"MedSignals**"-



When an analog phone line isn't available in your office, the MedSignals® I-Set™ provides quick office set-ups.



- Bypass phone, uploads straight to server when computer is online.
- Program many devices for a protocol in minutes.
- Download devices in office visits, without waiting for phone dial-ups.
- Access website globally without int'l phone costs.

## **"-"MedSignals**"-

When patients need monitoring on more than 4 drugs, multi-packs can be integrated into

common data reports.









#### **Trends in Home-Based Monitoring:**

- Instant alerts, notifications to care team
- Wireless (embedded cell phone chips) in devices not Bluetooth-ing to individuals' cell phones.
- Co-morbidity drugs, with reports to multiple

nubs (wed5ignais, AI&I Actuarius, etc.)

 Nurse-led Call Centers for exception handling, barriers management





#### **Opportunities for Researchers:**

- Co-morbidities: comprehensive disease management
- Non-standard use of bins: methadone weaning
- Event reminders beyond meds: "virtual" bins
- Non-pill medication forms (blister packs, injections, refrigerated drugs)
- Solar-powered devices (homeless, African HIV)
- Cost-effectiveness and comparative effectiveness measures
- Non-English languages
- Call center and phone IVR feedback loop
- Apps for smart phones
- RFID-tagged drugs and other diversion technologies



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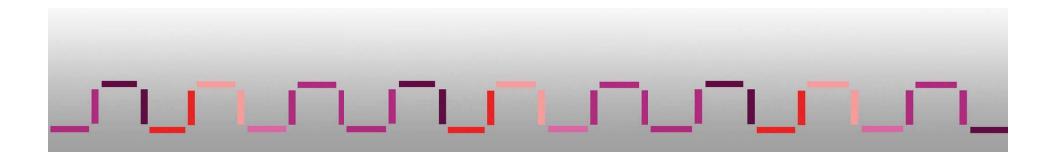
# MedSignals® Functions in Intervention Mode

- Records each pill-taking event in memory
- Signals at pill times in 4 multi-sensory ways (beeps, flashing, text, VOICE).
- Voice announces how many pills to take and how to take them (9 optional warnings) in English, Spanish (others coming.)
- Provides feedback at the press of a button on today's usage (last, next, and how many pills today) in the Intervention mode.
- Uploads lid opening data to server database and imports to your database or the patient's Electronic Medical Record
- Displays Smart Charts on patient's secured, customized web page
- Dashboards and aggregate charts help study managers quickly respond to non-adherents (using your own criteria) for exception handling.



#### MedSignals® Functions in Control Condition Mode

- Turn off all signals and patient feedback at the push of a button. Tracks natural pill-taking patterns thereafter.
- Records each lid-opening event in memory
- Automatically uploads lid opening data to server database, imports to your database or the patient's electronic record
- Charts activity on participant's <u>secured</u> web page to quickly spot malfunctions or participant attrition. Dashboards and aggregate charts help study managers quickly respond to non-adherents (using your own criteria).

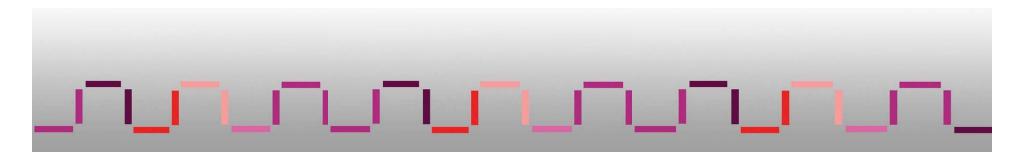




#### **Unique Benefits to Researchers:**

- Improve <u>data collection reliability and ease</u>. Reduce attrition. Identify and remedy non-performing participants early. Export data anytime, any way. .
- Conduct <u>polydrug</u> studies efficiently. Track multiple drugs simultaneously.
- <u>Set devices remotely.</u> Two-way communications lets you change settings when prescriptions change, without an office visit.
- Reuse devices with new participants, new studies. Rechargeable battery should last years.

>>> more >>>>





- Convert quickly from <u>Intervention</u> to <u>control condition</u> data collection
- <u>Bluetooth</u> connectivity from other home-based biomonitors, capturing real-time metrics.
- <u>Cut costs, labor</u>, and participant <u>burden</u>.
- Continuous data collection enables <u>adaptive trials</u>.
- Execute <u>customized</u>s <u>tudy interventions</u> with reminder signals.
- Match device models and functions to your study protocols.
- Choose frequency of uploads to match your needs and budget.

